

## **CITY COUNCIL AGENDA MEMORANDUM**

### **SUBJECT**

Motion to award Bid No. 14015 for SE 60<sup>th</sup> Street Roadway Embankment Stabilization to Weber Construction, Inc., as the lowest responsible and responsive bidder in the amount of \$116,020.73 (CIP Plan No. W-16).

### **FISCAL IMPACT**

Awarding this bid commits the City to payment of \$116,020.73. This contract is fully funded through the Small Diameter Water Main Replacement program (CIP Plan No. W-16). This amount is approximately 22.1% below the Engineer's Estimate. Sufficient funds have been budgeted to fund this contract in the 2013-2019 Utilities CIP Budget.

### **STAFF CONTACT**

Nav Ota, Director, 452-2041

Paul Bucich, Assistant Director of Engineering, 452-4596

*Utilities Department*

### **POLICY CONSIDERATION**

#### **Utilities Department policies:**

- To invest resources as necessary to construct, maintain and renew water system infrastructure and equipment so that Utility customers are provided with consistent, reliable service.

#### **Utilities Department practice:**

- Replace small diameter asbestos cement water main installed in the late 1940's and 1950's to reduce the possibility of water main breaks. CIP Plan No. W-16 has been designated to do this.

#### **City Contracting policies:**

- BCC 4.28 provides for the fair and equitable treatment in the purchasing process. Because the amount of the contract exceeds \$35,000, Council approval is required.

### **BACKGROUND**

This project consists of roadway embankment stabilization due to a land slide that occurred as the result of a leaking water main. The slide is approximately 63 yards long and 30 yards wide at the top and narrows to about 6 yards wide at the bottom. The goal of this project is to provide a long-term solution to protect the existing infrastructure.

Alternatives considered consist of reseeding the slope with native grasses and trees, buttressing the roadway and the placement of quarry spalls 12 inches deep and re-vegetation of the slope with trees.

Reseeding with native grasses was rejected as there are existing utilities running parallel with the northern edge of pavement and very little of the roadway shoulder remaining. Buttressing the roadway was not selected as this solution does not address the deep erosion at the base of the slope. The use of quarry spalls

with trees was selected as it provides long-term stabilization of the roadway, reduces the likelihood of continued erosion at the base of the slope, and does not preclude the construction of the future private drive indicated on the Kimberly Park II Plat. The site will be re-vegetated by planting Western Red Cedar and Red Alder around the perimeter of the slide and utilizing Pacific Willow, Redosier Dogwood and Salmon Berry live stakes every 4 feet on center throughout the stabilized area.

Bids were opened on March 19, 2014 and are as follows:

|                               |              |
|-------------------------------|--------------|
| Weber Construction, Inc.      | \$116,020.73 |
| Santana Trucking & Excavating | 124,762.11   |
| Road Construction NW, Inc.    | 125,459.63   |
| AGR Contracting               | 128,495.73   |
| Jansen, Inc.                  | 138,643.43   |
| Nordic Construction           | 140,398.71   |
| MVG, LLC                      | 142,295.25   |
| RRJ Company, LLC              | 152,132.73   |
| Westwater Construction        | 208,926.00   |
| A-1 Landscape & Construction  | 211,408.37   |

**Engineer's Estimate**

**\$148,950.66**

To the best of staff's knowledge, all factors that normally contribute to construction expense have been accounted for in the plans and in the Engineer's Estimate. It is our experience that construction projects of this type may result in some amount of field changes. Such claims are rigorously reviewed and only those that are clearly necessary to accomplish the intent of the contract, but have somehow not been provided for, will be paid.

**EFFECTIVE DATE**

If adopted, this Motion becomes effective immediately upon adoption.

**OPTIONS**

1. Award Bid No. 14015 for SE 60<sup>th</sup> Street Roadway Embankment Stabilization to Weber Construction, Inc., as the lowest responsible and responsive bidder in the amount of \$116,020.73 (CIP Plan No. W-16).
2. Award contract to another bidder, if low bidder is rejected.
3. Reject all bids and re-bid at a later date.

**RECOMMENDATION**

Adopt Option No. 1, which awards Bid No. 14015 for SE 60<sup>th</sup> Street Roadway Embankment Stabilization to Weber Construction, Inc., as the lowest responsible and responsive bidder in the amount of \$116,020.73 (CIP Plan No. W-16).

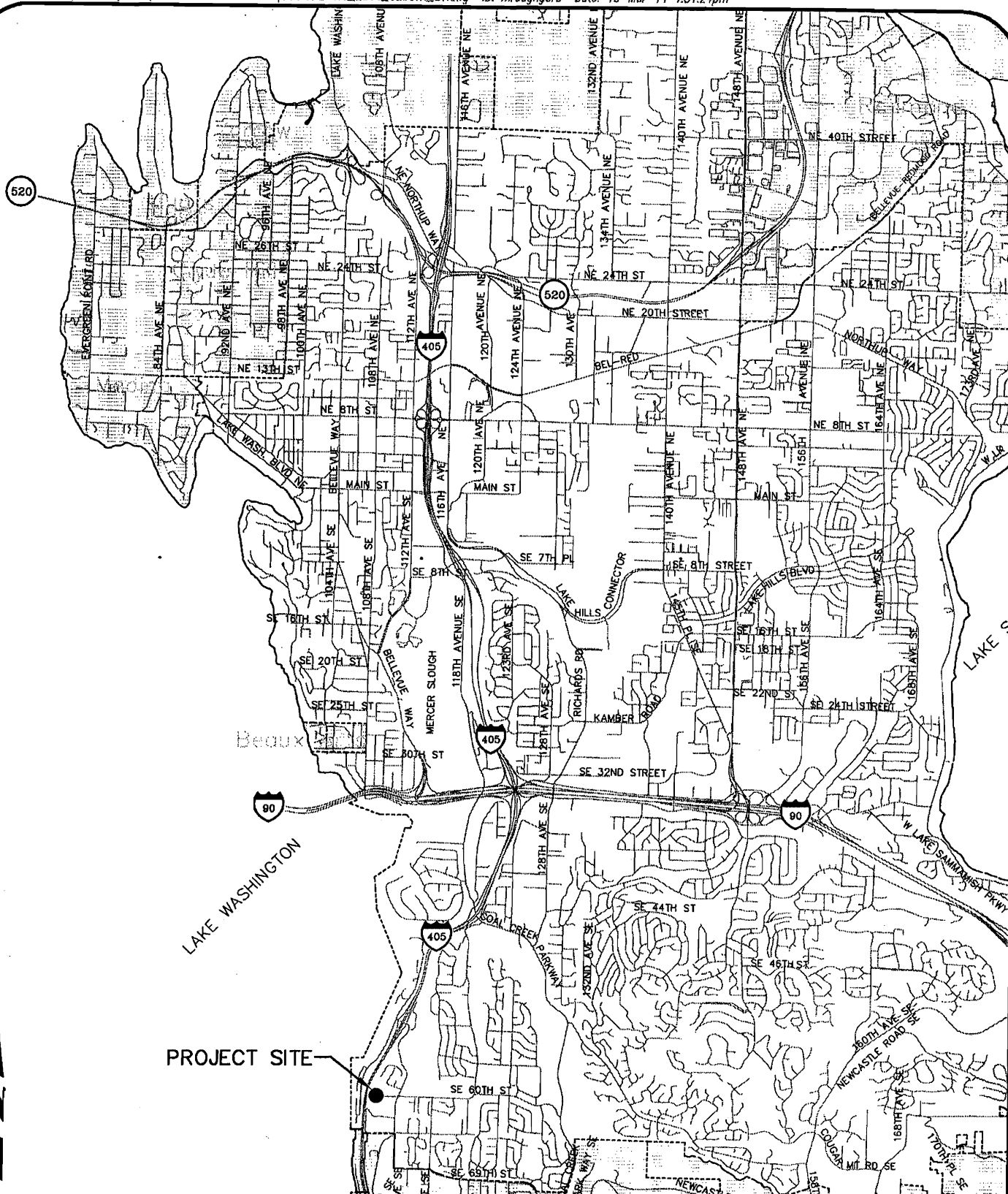
References have been checked and the contractor has the resources and experience necessary to successfully complete this project.

**MOTION**

Move to award Bid No. 14015 for SE 60<sup>th</sup> Street Roadway Embankment Stabilization to Weber Construction, Inc., as the lowest responsible and responsive bidder in the amount of \$116,020.73 (CIP Plan No. W-16).

**ATTACHMENTS**

Vicinity Map  
CIP Project Description



## PROJECT SITE

----- CITY OF BELLEVUE CITY LIMITS

## VICINITY MAP

SE 60TH STREET ROADWAY EMBANKMENT  
STABILIZATION  
C.I.P. NO. W-16

**FY2013-2019 Capital Investment Program**

## W-16 Small Diameter Water Main Replacement

Category: **Water**  
Department: **Utilities**

Status: **Ongoing**  
Location: **Various locations throughout Water Utility's service area**

**Programmed Funding**

| Programmed Funding | Appropriated To Date | FY 2013 Budget | FY 2014 Budget | FY 2015 Budget | FY 2016 Budget | FY 2017 Budget | FY 2018 Budget | FY 2019 Budget |
|--------------------|----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 89,443,058         | 36,739,552           | 5,359,024      | 6,059,309      | 6,788,816      | 7,547,194      | 8,349,776      | 9,175,831      | 9,423,556      |

**Description and Scope**

This program focuses primarily on replacing short-lived small diameter asbestos cement (AC) pipe, which yields a secondary benefit of increasing the emergency fireflow available to neighborhoods. This investment will ramp up water pipeline replacement to 5 miles/year by 2018, and then be adjusted with inflation to maintain the 5 miles/yr replacement rate. At that rate, water pipe will need to last on average 100-125 years. Pipes are selected for replacement based on risk of failure (likelihood and consequence), failure history, and coordination with other construction, such as planned street overlays (which reduce restoration costs).

**PROJECT NEED:** System Renewal and Replacement

**Rationale**

Water pipeline replacement will ramp up from 1.5 miles per year to 5 miles per year over a year-year period. Acceleration of this project is required to achieve the Asset Management Program (AMP) goal of cost effective system renewal and replacement while maintaining acceptable customer service levels. Experience has shown that small diameter AC pipes have the shortest life. AC pipe fails catastrophically, often causing significant damage to nearby properties and triggering more breaks in nearby AC pipes.

Small diameter AC pipe accounts for a disproportionate share of water main breaks. Besides size and material, soil corrosiveness, moisture content, and original construction quality affect pipe life. As budgeted, most 4-inch AC pipe will be replaced by 2017, reaching a maximum pipe age of 61 years. Replacement of 6-inch AC main would follow, over a 30 year period. Larger diameter mains would be replaced before they reach 125 years old. Pipes of other materials (ductile and cast iron, clay) will also be replaced as needed. The potential for main breaks will be significantly reduced, minimizing service disruptions to customers and costly emergency repairs, and reducing claims exposure.

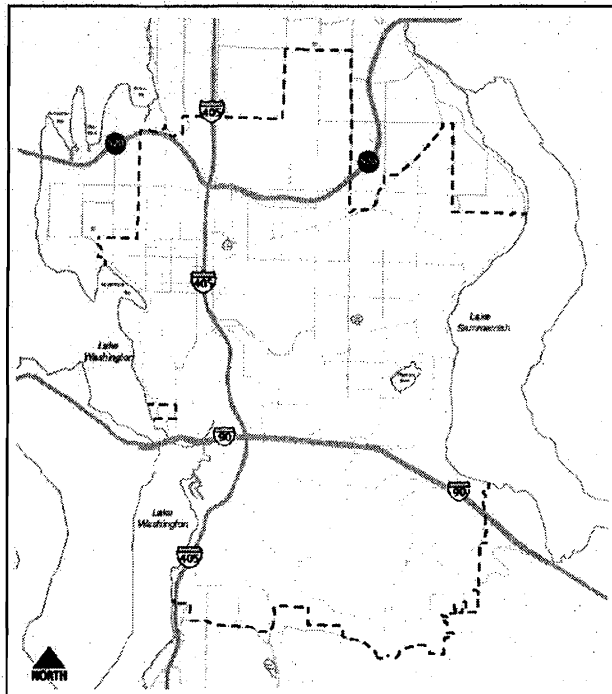
**Environmental Impacts**

Replacement of Water mains less than eight inches in diameter are generally exempt from environmental review, unless they are in or adjacent to sensitive areas. The status of environmental review of specific projects is undetermined.

**Operating Budget Impacts**

This project will have no impact on operating revenues (and/or) expenditures, since it replaces existing facilities.

**Project Map**



**Schedule of Activities**

| Project Activities | From - To | Amount     |
|--------------------|-----------|------------|
| Project Costs      | Ongoing   | 89,443,058 |

**Total Budgetary Cost Estimate:** 89,443,058

**Means of Financing**

| Funding Source         | Amount     |
|------------------------|------------|
| Judgements/Settlements | 42,000     |
| Miscellaneous Revenue  | 946,000    |
| Utility Rates/Fees     | 88,455,058 |

**Total Programmed Funding:** 89,443,058

**Future Funding Requirements:** 0

**Comments**

This project is located throughout the service area.